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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/970,539	10/03/2001	Jan Renier Moonen	US018163	1384	
750	90 07/21/2005	EXAMINER JAIN, RAJ K			
	nics North America Co				
580 White Plains Road Tarrytown, NY 10591			ART UNIT	PAPER NUMBER	
			2664		
			DATE MAILED: 07/21/2005	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)
	09/970,539	MOONEN, JAN RENIER
Office Action Summary	Examiner	Art Unit
	Raj K. Jain	2664
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period of the period for reply within the set or extended period for reply will, by statute any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ti y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fror a cause the application to become ABANDON	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on <u>03 C</u> 2a)□ This action is FINAL . 2b)⊠ This 3)□ Since this application is in condition for allowa closed in accordance with the practice under E	s action is non-final. nce except for formal matters, pr	
Disposition of Claims		
4) Claim(s) 1-9 is/are pending in the application. 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-9 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or		
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on 24 January 2002 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Example 2015.	(a) accepted or b) \Box objected or by \Box objected drawing(s) be held in abeyance. So the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applica prity documents have been receiv nu (PCT Rule 17.2(a)).	tion No ved in this National Stage
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date 8/21/03.	4) Interview Summal Paper No(s)/Mail 5) Notice of Informal 6) Other:	

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DETAILED ACTION

Claims 1-9 examined on the merits.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-9 are rejected under 35 U.S.C. 102(e) as being anticipated by Yagyu et al (EP001128605A2).

Regarding claim 1, Yagyu discloses a method of bridging a plurality of multicast domains (see abstract, Fig. 1) the method comprising:

- enabling to transfer a multicast message (see Fig. 1), originating in a specific one of the domains 10, as a unicast message to at least another one of the domains 20 (see Figs. 1 & 2, abstract, paras 0009, 0012-0014, a multicast message in domain 10 is converted or encapsulated into a unicast packet to be tunneled thru to domain 20 and than reconverted back to a multicast packet for distribution accordingly);
- enabling to regenerate the multicast message from the unicast message in the other domain (see Figs. 1 & 2, abstract, paras 0009, 0012-0014, once the unicast

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packet reaches the 201 transferring apparatus of the destination domain 20, the transferring apparatus than reconstructs the original multicast packet from the received unicast packet).

Regarding claims 7, 8 & 9, Yagyu discloses a unicast message on a data network, a multicast message being encapsulated in the unicast message (see Figs. 1 & 2, abstract, paras 0009, 0012-0014, a multicast message in domain 10 is converted or encapsulated into a unicast packet to be tunneled thru to domain 20 and than reconverted back to a multicast packet for distribution accordingly. One skilled in the art appreciates the concept of IP tunneling. IP tunneling combines unicast and multi-recipient delivery, and may combine TCP and UDP techniques. IP tunneling is known for use in the multicast context. Such tunneling refers to the encapsulation of multcast packets in an IP datagram (i.e. unicast packet) to route through parts of a network that don't support multicast routing. The encapsulation is added on entry to a tunnel and stripped off on exit from a tunnel. More specifically, the packet is wrapped, sent through a unicast tunnel, unwrapped, and then resent in the destination subnet).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

⁽a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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Claims 2-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yagyu et al (EP001128605A2) further in view of Weisman et al (US 20020112058A1).

Regarding claims 2 and 3, Yagyu discloses a method and apparatus for multicast packet transfer between different domains (10, 20 of Fig. 1) by converting the multicast packet to unicast packet and than reconstructing the multicast packet back at the destination domain.

Yagyu fails to disclose a message within the multicast packet for discovery of services or devices.

Weisman discloses a message within the multicast packet for discovery of services or devices (see paras 0840 – 0843, 0849).

Discovery messages within the multicast packet enable new devices to be incorporated within the existing network via new IP addresses for communication purposes and contact.

Thus it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate discovery messages within multicast packets within Yagyu for the purposes of facilitating the addition of new devices and or services within a network as appropriate.

Regarding claims 4-6, Yagyu discloses a method and apparatus for multicast packet transfer between different domains (10, 20 of Fig. 1) by converting the multicast packet to unicast packet and than reconstructing the multicast packet back at the destination domain.

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Yagyu fails to disclose a wireless network with UpnP architecture having IP multicasting capabilities.

Weisman discloses a wireless network (see paras 0002 and 0416) with UpnP architecture having IP multicasting capabilities (see paras 0803-0811). UpnP functionality includes a Simple Service Discovery Protocol (SSDP), an IP multicast based discovery protocol, HTTP and XML. An IP multicast is a mechanism for sending a single message to multiple recipients. IP multicasting is especially useful for discovery operations where one does not know exactly who has the information one seeks. In such cases, one can send a request to a reserved IP multicast address. Any services that can provide the requested information will also subscribe to the multicast request and thus be able to hear the information request and properly respond.

Upnp leverages formal protocol contracts to enable peer-to-peer interoperation. Protocols contracts enable real-world multiple-vendor interoperation. Upnp provides a device-driven auto-configuration capability that preserves the experience that customers have on the Web. It is possible to navigate around the Web without loading programs beyond the browser itself.

Thus it would have been obvious to one of ordinary skill in the art at the time the invention was made incorporate the Upnp architecture within Yagyu so as to provide a seamless integration of differing components that have different programming languages and/or operating system requirements.

Conclusion

Any inquiry concerning this communication or earlier communications from the

Page 6

examiner should be directed to Raj Jain whose telephone number is 571-272-3145.

The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on 571-272-3134. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-

2600

June 27, 2005



INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number	09/970,539
Filing Date	10/03/2001
First Named Inventor	MOONEN, Jan Renier
Art Unit	2668
Examiner Name	Unknown
Attorney Docket Number	US01 8163

6			U.S. PAT	ENT DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number NoKind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns Lines, Where Relevan Passages or Relevant Figures Appear
		US-			RECEIVED
		US-			AUG 2 2 2003
		US-			AUG 2 2 2003
		US-			Technology Center 260
		US-			
		US-			

	FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.1	Document Number (ctry³-no.⁴-kind⁵, if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of cited document	Pages, Columns Lines, Where Relevant Passages or Relevant Figures Appear	Τ°
er		EP 1 128 605	08-29-2001	YAGYU, Tomohiko, et al.		
-11		WO 98 02821	01-22-1998	HART, John, et al.		
1		WO 00 11836	03-02-2000	PEARLMAN, Radia J., et al.		
V						

 	NON-PATENT LITERATURE DOCUMENTS	
Cite No.1	Include name of the author (in capital letters), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Т
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Examiner Signature		Date Considered	6-23-05
	ACC		

^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁸ Applicant is to place a check mark here if English language Translation is attached.

Notice of References Cited Application/Control No. 09/970,539 Applicant(s)/Patent Under Reexamination MOONEN, JAN RENIER Examiner Raj K. Jain U.S. PATENT DOCUMENTS Applicant(s)/Patent Under Reexamination MOONEN, JAN RENIER Page 1 of 1

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	Α	US-2002/0112058 A1	08-2002	Weisman et al.	709/227
	В	US-			
	C	US-			
	D	US-			
	Е	US-			
	F	US-			
	G	US-			
	н	US-			
	ı	US-			
	J	US-			
	К	US-			
	L	US-			
	М	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
*	N	EP1128605 A2	08-2001	Europe	Yagyu et al	
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	Р					
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NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).) Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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